

PROTECTION OF ELECTRO-OPTIC DISPLAYS AGAINST THERMAL EFFECTS

Abstract

An electro-optic display comprises a layer of reflective electro-optic material capable of changing its optical state on application of an electric field, an electrode, a heat generating component in heat conducting relationship with the electro-optic material, and a heat shield disposed between the heat generating component and the electro-optic material, the heat shield comprising a layer of thermally insulating material and a layer of thermally conducting material, the thermally conducting material being disposed between the thermally insulating material and the electro-optic material. The invention also provides an electrophoretic medium comprising a suspending fluid and a plurality of electrically charged particles suspended in the suspending fluid and capable of moving therethrough upon application of an electrical field to the electrophoretic medium, the suspending fluid containing a compatibilizer to reduce its coefficient of thermal expansion.